

N.KUMARESAN

ENGINEER-METALLURGY

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OBJECTIVES:

To obtain a Metallurgical Engineer position in a progressive company and use my experience and knowledge to meet the company's goals and objectives.

SKILLS:

- Metallurgy quality in-charge
- Inward quality control
- CQI-9 special process assessment
- Supplier audit
- Heat treatment process
- Team management
- Analysis and problem solving

LANGUAGES AND

COMPUTER SKILLS:

- English, Tamil and Kannada
- Orgin-8, Image j, Xpert high score plus.
- Microsoft office
- Knowledge in SAP

EXPERIENCE

Metallurgy Engineer – Heat treatment, L.G.BALAKRISHNAN & BROS LTD. Bangalore plant, Bangalore (Sep 2016 to currently).

IATF16949:2016, ISO/TS 16949:2009 certified company and one of the leading manufacturer of Sprockets, Forging components & Chain kits for all two & four wheelers.

WORKING EXPOSURE:

- Processes selection (Carburizing, Carbo-Nitiding, Hardening, Tempering, Stress relieving, Normalizing) based on desired properties.
- Metallurgical lab inspection result review and approval.
- Incoming raw material inspection and approval.
- Control of testing machines & calibration of instruments at the lab and Heat treatment.
- Quality assurance of sub contract and in-house heat treatment parts.
- Knowledge on sealed quench furnace, Mesh belt furnace and Metallography, Mechanical testing, Chemical analysis, etc.,
- New product development – Quality approval.
- Analysis of heat treatment issue and troubleshooting.
- Conduct process validation, product validation, 9 point location study, SAT, quench oil properties monitoring.
- On job training to lab engineers and casual labors.
- Planning and monitoring of furnace scheduling, manpower planning, and conduct review meetings.
- Review the heat treatment process cycle daily monitoring sheet and SCADA.
- First and second party audit, CQI9 Audit. Vendor development for heat treatment process.
- Continuous process improvement for minimization of defects, reworks and rejections.
- Preventive action for the breakdown of furnaces.
- Customer compliant analysis, 8-D reports preparation, 5 Why analysis,
- Review key performance indicators (KPI's), deciding on corrective measures to be taken, communicating these to the team and monitoring the results.
- Co-ordinate with production, quality department to achieve the target and customer requirement in time.

CERTIFICATIONS:

CQI-9 special process – Heat treat system assessment.

PERSONAL PROFILE:

Date of Birth : 21.05.1993

Gender : Male

Marital status: Single

Location : L.G.Balakrishnan
& Bros Ltd,
Bangalore plant,
Bangalore.

MAXWELL AUTO COMPONENTS PVT LTD. Coimbatore – Quality engineer (Aug’15 – Aug’16).

Maxwell auto components is a Green field foundry, Manufacturing of grey and SG Castings.

WORKING EXPOSURE:

- Planning and executing the shop-floor operations like Induction melting, Charge calculation, Melt composition adjustment, Metal treatment, Pouring, Moulding, relining and sintering process.
- Maintaining the quality and quantity of mould and moulding sand. Ensuring sand plant activities.
- Improving Quality/Productivity/Reliability at manufacturing with continual improvement.
- Controlling the chemical composition, casting defect analysis, metallurgical and raw material inspection.
- Preparation of process sheet and metallurgical inspection reports.
- Preparing the daily melting schedule, ensuring proper preparations are made before pouring and process control on melting.
- Ensuring adherence to quality standards, implementing stringent quality control systems to enhance quality of products and reduce rejection level & rework.
- Managing the workmen for achieving the periodic production targets in SG and Grey iron.
- Extended the development and implementation of technology to improve productivity through 5S implementation.

ACADEMIC DETAILS:

- **B.E. Material Science and Engineering:**
2012-2015 – CARE GROUP OF INSTITUTIONS – Trichy (T.N.)
- **Diploma in Metallurgy:**
2008-2011 – JKKM INSTITUTIONS – T.N.Palayam, Gobi (T.N.)
- **SSLC:**
2007-2008 – ST.MARYS HIGH SCHOOL – Kolappalur, Gobi (T.N.)

I hereby solemnly declare that all the statements made in the above are true and correct to the best of my knowledge and belief.

N.KUMARESAN